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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **1** of **12**

Complete if Known

Application Number **09/585,726**
Filing Date **May 31, 2000**
First Named Inventor **Rhoads**
Group Art Unit **2137**
Examiner Name **D. Meislahn**
Attorney Docket Number **60208**

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code ² (if known)				
DM	1	2630525		Tomberlin et al.	3/3/53		
	2	3004104	A	Hembrooke	10/10/1961	341	182
	3	3406344	A	Hopper	10/15/1968	375	270
	4	3845391		Crosby	10/29/74		
	5	3885217		Cintron	5/20/75	325	26
	6	3894190		Gassmann	7/8/75	179	15.55 R
	7	4025851	A	Haselwood et al.	5/24/1977	725	22
	8	4225967		Miwa et al.	9/30/80	455	68
	9	4230990		Lert, Jr. et al.	10/28/80	455	67
	10	4237494		Brown et al.	12/2/80		
	11	4238849		Gassmann	12/9/80	370	11
	12	4245346		Grady et al.	1/1981	455	28
	13	4313197		Maxemchuk	1/26/82	370	111
	14	4333113		Kalinowski	6/1/82	360	27
	15	4358857		Gleason et al.	11/1982	455	26
	16	4379947		Warner	4/12/83	179	1
	17	4395600	A	Lundy et al.	7/26/1983	381	73.1
	18	4425642		Moses et al.	1/1984	370	76
	19	4425661		Moses et al.	1/10/84	370	76
	20	4495620		Steele et al.	1/22/85	370	118
	21	4512013		Nash et al.	4/16/85	370	69.1
	22	4523311		Lee et al.	6/11/85	370	69.1
	23	4528588		Lofberg	7/9/85	358	122
	24	4593389		Wurzburg et al.	6/3/86	370	110.1
	25	4703476		Howard	10/27/87	370	76
	26	4718106	A	Weinblatt	1/5/1988	455	201
	27	4750173		Bluthgen	6/7/88	370	111
	28	4775901		Nakano	10/4/88		
	29	4777529		Schultz et al.	10/1988	358	143
	30	4807031	A	Broughton et al.	2/21/1989	348	460
	31	4811357	A	Betts et al.	3/7/1989	375	200
	32	4855827		Best	8/8/89	358	143
	33	4866771		Bain	9/12/89	380	23
	34	4876617		Best et al.	10/24/89	360	60
	35	4920503		Cook	4/24/90	364	521

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Date
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12 July 2004

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Sheet 2 of 12

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Application Number 09/585,726
Filing Date May 31, 2000
First Named Inventor Rhoads
Group Art Unit 2137
Examiner Name D. Meislahn
Attorney Docket Number 60208

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		Number	Kind Code ² (if known)				
03/1	36	4921278	A	Shiang et al.	5/1/1990	283	87
	37	4939515		Adelson	7/3/90	341	51
	38	4943973		Werner	7/24/90	375	1
	39	4945412		Kramer	7/31/90	358	142
	40	4963998		Maufe	10/16/90	360	60
	41	4969041		O'Grady et al.	11/6/90	358	142
	42	4972471		Gross et al.	11/90	380	3
	43	4979210		Nagata et al.	12/18/90	380	3
	44	5010405	A	Schreiber et al.	4/23/1991	358	141
	45	5073899		Collier et al.	12/17/91	375	1
	46	5079648		Maufe	1/7/92	360	60
	47	5103459		Gilhausen et al.	4/7/92		
	48	5134496		Schwab et al.	7/28/92		
	49	5146457		Veldhuis et al.	9/8/92		
	50	5161210		Druyvesteyn et al.	11/3/92	345	2
	51	5200822		Bronfin et al.	4/6/93	348	460
	52	5212551		Conanan	5/18/93	358	143
	53	5213337	A	Sherman	5/25/1993	463	40
	54	5243411	A	Shirochi et al.	9/7/1993	358	12
	55	5243423		DeJean et al.	9/7/93	358	142
	56	5257119		Funada et al.	10/26/93	358	438
	57	5315098		Tow	5/24/94	235	494
	58	5319453	A	Copriviza	6/7/1994	348	6
	59	5319735		Preuss et al.	6/7/94	395	2.14
	60	5327237		Gerdes et al.	7/5/94	348	476
	61	5379345		Greenberg	1/3/95	380	23
	62	5387941		Montgomery et al.	2/7/95	348	483
	63	5390185		Hooijmans et al.	2/14/95	370	98
	64	5394274		Kahn	2/28/95	360	27
	65	5404160		Schober et al.	4/4/95	348	1
	66	5404377		Moses	1/1/95	375	200
	67	5418853		Kanota et al.	5/23/95	380	20
	68	5425100		Thomas et al.	6/1995	380	20
	69	5432542	A	Thibadeau et al.	7/11/1995	348	6
	70	5436653		Ellis et al.	7/25/95		

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Sheet 3 of 12

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Application Number	09/585,726
Filing Date	May 31, 2000
First Named Inventor	Rhoads
Group Art Unit	2137
Examiner Name	D. Meislahn
Attorney Docket Number	60208

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		Number	Kind Code ² (if known)				
DMM	71	5444779		Daniele	8/22/95		
	72	5450122	A	Keene	9/12/1995	348	1
	73	5450490		Jensen et al.	9/12/95	380	6
	74	5453968		Veldhuis et al.	9/26/95		
	75	5473631	A	Moses	12/5/1995	375	202
	76	5479168	A	Johnson et al.	12/26/1995	341	110
	77	5481294	A	Thomas et al.	1/2/1996	348	1
	78	5510900		Shirochi et al.	4/23/96		
	79	5530655		Lokhoff et al.	6/25/96		
	80	5530751		Morris	6/25/96	380	4
	81	5530759		Braudaway et al.	6/25/96	380	54
	82	5537216		Yamashita et al.	7/16/96		
	83	5539471		Myhrvold et al.	7/23/96	348	473
	84	5541662	A	Adams et al.	7/30/1996	348	460
	85	5559559		Jungo et al.	9/24/96	348	432
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	93	5636292C1		Rhoads	6/18/02		
	94	5642397		Agbaje-Anozie	6/1997	379	57
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	96	5649054		Oomen et al.	7/15/97		
	97	5652626		Kawakami et al.	7/29/97		
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	100	5671277		Ikenoue et al.	9/23/97		
	101	5712920		Spille	1/27/98		
	102	5719984		Yamagata et al.	2/17/98		
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	104	5739864		Copeland	4/14/98		
	105	5748763	A	Rhoads	5/5/1998	382	115

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Douglas Meislahn

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Sheet 4 of 12

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Application Number 09/585,726
Filing Date May 31, 2000
First Named Inventor Rhoads
Group Art Unit 2137
Examiner Name D. Meislahn
Attorney Docket Number 60208

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		Number	Kind Code ² (if known)				
pjm	106	5764763		Jensen et al.	6/9/98		
	107	5768426		Rhoads	6/16/98		
	108	5774452		Wolosewicz	6/30/98		
	109	5832119C1		Rhoads	3/5/02		
	110	5850481C1		Rhoads	7/16/02		
	111	5857038		Owada et al.	1/5/99		
	112	5907443		Hirata	5/25/99		
	113	5960151		Takahashi	9/28/99		
	114	5987127	A	Ikenoue et al.	11/16/1999	358	401
	115	5991500		Kanota et al.	11/23/99		
	116	6086706		Brassil et al.	7/11/00		
	117	6363159		Rhoads	3/26/02		
	118	6404898		Rhoads	6/11/02		
	119	6539095		Rhoads	3/25/03		
	120	6628801		Powell et al.	9/30/02		
	121	6654480		Rhoads	11/25/03		
	122	20020090110		Braudaway et al.	7/11/02		

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Sheet 5 of 12

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		Office ³	Number ⁴	Kind Code ⁵ (if known)					
DMM	1	DE	2943436	A1	Szepanski (copy enclosed)	5/7/1981	G07C	9/00	X
	2	DE	3806411	A1	Schroeder	9/7/1989	H04B	1/68	
	3	EP	0058482	A1	Walters	8/25/1982	H04M	11/06	
	4	EP	0366381	A2	Best et al.	3/15/1995	H04H	1/00	
	5	EP	0372601	A1	Druyvesteyn	6/13/1990	H04B	1/66	
	6	EP	0411232	A2	Chevon et al.	2/6/1991	H04N	1/411	
	7	EP	0418964	A1	Veldhuis et al.	3/27/1991	G11B	20/00	
	8	EP	0441702	A1	Farjaudon	8/14/1991	G11B	20/00	
	9	EP	0493091	A1	Tow	7/1/1992	H04N	1/387	
	10	EP	0551016	A1	Kajita	7/14/1993	H04N	1/387	
	11	EP	0565947		Nokia (copy enclosed)	5/28/97			
	12	EP	0581317	A2	Powell et al.	2/2/1994	G07D	7/00	
	13	EP	0605208	A2	Tanioka et al.	7/6/1994	H04N	1/46	
	14	EP	0629972	A2	Mahon	12/21/1994	G06K	15/102	
	15	EP	0642060	A2	Kawakami et al. (copy enclosed)	3/8/1995	H04N	1/387	
	16	EP	0649074	A1	Daniele	4/19/1995	G03G	21/02	
	17	EP	0650146	A1	Ray et al.	4/26/1995	G07C	9/00	
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	20	EP	0705025	A2	Rabbani	4/3/1996	H04N	1/40	
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	22	GB	2067871	A	Evelyn	7/30/1981	H04N	7/16	
	23	GB	2104701		King (copy enclosed)	3/9/83			
	24	GB	2196167	A	Holt	4/20/1988	G11B	20/08	
	25	GB	2204984	A	Jenkins	11/23/1988	G11B	23/28	
	26	JP	4-248771	A	Takahashi et al.	9/4/1992	H04N	1/44	X
	27	JP	5-242217	A	Shuichi	9/21/1993	G06F	15/62	
	28	WO	89/08915	A1	Turner	9/21/1989	G11B	20/10	
	29	WO	92/19073		Bronfin et al. (copy enclosed)	10/29/92			
	30	WO	93/25038	A1	Kunt et al.	12/9/1993	H04N	1/00	
	31	WO	95/10835	A1	Yaginuma	4/20/1995	G11B	31/00	

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DP	32	WO	95/20291	A1	Paatelma	7/27/1995	H04N	1/32	
	33	WO	96/26494	A1	Sandford et al.	8/29/1996	G06F	17/30	
	34	WO	96/27259	A1	Hilton	9/6/1996	H04N	1/32	
	35	WO	97/02522	A1	Hilton (copy enclosed)	1/23/1997	G06F	1/00	

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<i>DM</i>	1	ARACHELIAN, R., Software License for White Noise Storm, ftp://ftp.csua.berkeley.edu/pub/cypherpunks/steganography/wns210.zip (13 pages), April 11, 1994.	
	2	ARAZI, et al., "Intuition, Perception, and Secure Communication," <u>IEEE Transactions on Systems, Man, and Cybernetics</u> , vol. 19 no. 5 pp. 1016-1020, Sept./Oct. 1989. (copy enclosed)	
	3	ARTHUR, "Digital Fingerprints Protect Artwork," <u>New Scientist</u> , p. 24, Nov. 12, 1994.	
	4	BENDER et al., "Techniques for Data Hiding," Mass. Inst. of Tech. Media Lab., (10 pages) Jan. 1995 (published in <u>Proc. of SPIE</u> , Vol. 2420 pp. 164-173, Feb. 9, 1995).	
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	6	BONEH, "Collusion-Secure Fingerprinting for Digital Data," Dept. of Computer Science, Princeton University (31 pages), 1995.	
	7	BRASSIL et al., "Electronic Marking and Identification Techniques to Discourage Document Copying," <u>Proceedings of INFOCOM '94 Conference on Computers</u> , pp. 1278-1287, Jun. 12-16, 1994 (presented at IEEE Communications Society Conference).	
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	9	BRUYNDONCKX et al., "Neural Network Post-Processing of Coded Images Using Perceptual Masking," <u>Proceedings of IEEE Workshop on Nonlinear Images/Signal Processing</u> (Thessaloniki, Greece), pp. 456-459, Jun. 1995 (preprint c. 1994).	
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	13	CYPHERTECH SYSTEMS, INC., "Broadcast Monitoring Technology," Promotional Brochure, Nov. 1992 (4 pages). (copy enclosed)	
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Sheet 8 of 12

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Application Number 09/585,726
Filing Date May 31, 2000
First Named Inventor Rhoads
Group Art Unit 2137
Examiner Name D. Meislahn
Attorney Docket Number 60208

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DM	15	DAUTZENBERG, "Watermarking Images," Trinity College (Dublin) Dept. of Microelectronics and Electrical Engineering (47 pages), Oct. 1994.	
	16	DELAIGLE et al., "A Psychovisual Approach for Digital Picture Watermarking," <u>Journal of Electronic Imaging</u> (20 pages), vol. 7 no. 3 pp. 628-40, Jul. 1998.	
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Filing Date May 31, 2000

First Named Inventor Rhoads

Group Art Unit 2137

Examiner Name D. Meislahn

Attorney Docket Number 60208

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DM	29	KOMATSU et al., "Authentication System Using Concealed Image in Telematics," <u>Memoirs of the School of Science & Engineering</u> , Waseda Univ., no. 52 pp. 45-60, 1988.	
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Filing Date May 31, 2000
First Named Inventor Rhoads
Group Art Unit 2137
Examiner Name D. Meislahn
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D.M.	43	QUISQUATER, J., et al., "Access Control and Copyright Protection for Images, WorkPackage 8: Watermarking" (46 pages), Jun. 30, 1995.	
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Filing Date	May 31, 2000
First Named Inventor	Rhoads
Group Art Unit	2137
Examiner Name	D. Meislahn
Attorney Docket Number	60208

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	57	SZEPANSKI, W., "Additive Binary Data Transmission for Video Signals," <u>Presented at Conference of the Communications Engineering Society</u> , September 30, 1980, NTG Technical Reports, volume 74, pp. 343-351. (copy enclosed)	X
	58	SZEPANSKI, W., "Binary Data Transmission Over Video Channels with Very Low Amplitude Data Signals," <u>Fernseh- und KinoTechnik</u> , vol. 32 no. 7 pp. 251-56. (copy enclosed)	X
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<i>DM</i>	71	WASSERMAN, Broadcast Monitoring Technology by Cyphertech Systems Inc. (untitled speech transcript), <u>Worldwide Symp. on the Impact of Digital Tech. On Copyright & Neighboring Rights</u> (Cambridge, MA), Apr. 2, 1993 (5 pages). (copy enclosed)	

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